

AGENDA

NORTHERN NEVADA WATER PLANNING COMMISSION (NNWPC)

Wednesday, August 3, 2022
1:30 p.m.

Washoe County Chambers
1001 East Ninth Street
Reno, Nevada

Notes:

1. Pursuant to NRS 241.020, members of the Commission may attend and participate in the meeting by means of a remote technology system; a physical location will be provided for this meeting and members of the public wishing to attend and/or participate may do so in person at the physical location of the meeting. Live public comment may be made during the meeting at the physical location of the meeting.
2. Items on this agenda on which action may be taken are followed by the term "For Possible Action". Non-action items are followed by an asterisk (*).
3. Public comment is limited to three minutes per speaker and is allowed during the public comment periods, and before action is taken on any action item. Comments are to be directed to the Commission as a whole. Persons may not allocate unused time to other speakers. The public may sign-up to speak during the public comment period or on a specific agenda item by completing a Public Comment Information ("Request to Speak") card and submitting it to the clerk.
4. Items on this agenda may be taken out of order, combined with other agenda items for consideration, removed from the agenda, moved to or from the Consent Items section, or delayed for discussion at any time. Arrive at the meeting at the posted time to hear item(s) of interest.
5. Supporting material provided to the Commission for the items on the agenda is available to members of the public at the NNWPC offices, 1001 E. Ninth St., Reno, NV, from Jennifer Purgitt, Administrative Secretary, (775) 954-4665, and on the NNWPC website at <http://www.nnwpc.us>
6. The Washoe County Chambers is accessible to the disabled. We are pleased to make reasonable accommodations for persons who are disabled and wish to attend meetings. If you require special arrangements for the meeting, please call (775) 954-4665 no later than 24 hours prior to the meeting.
7. In accordance with NRS 241.020, this agenda has been posted on the NNWPC website at <http://www.nnwpc.us>, and the State of Nevada Website at <https://notice.nv.gov>

1. Roll Call and determination of presence of a quorum *
2. Public Comments * (Three-minute time limit per person.)
3. Approval of agenda (**For Possible Action**)
4. Approval of the minutes from the June 1, 2022, NNWPC meeting. (**For Possible Action**)
5. Action, discussion, and possible direction to staff and acceptance of revisions to Table 2-1 Water Resources Baseline Table for Washoe County within Chapter 2 "Water Resources" of the Draft 2021-2040 Comprehensive Regional Water Management Plan (2021-2020 RWMP). – Kim Rigdon, Program Manager (**For Possible Action**)
6. Action, discussion, and possible direction to staff and acceptance of revisions to draft Chapter 4 "Wastewater and Effluent Management" for the 2021-2040 RWMP. – Kim Rigdon, Program Manager (**For Possible Action**)
7. Action, discussion and possible direction to staff on the final review and acceptance of revisions included in the 2021-2040 RWMP – Kim Rigdon, Program Manager (**For Possible Action**)

8. **PUBLIC HEARING** Action, discussion, and possible approval of the 2021-2040 RWMP. – Kim Rigdon, Program Manager (**For Possible Action**)
9. Action, discussion, and possible approval of Resolution 22-01 to recommend the adoption, by the Western Regional Water Commission (WRWC), of the 2021-2040 RWMP – Kim Rigdon, Program Manager (**For Possible Action**)
10. Action, discussion, and possible direction to staff to advance a recommendation to the WRWC to make a determination on the Truckee Meadows Regional Planning Agency (TMRPA) 2022-2042 Consensus Forecast for Washoe County. – Jeremy Smith, TMRPA Director and Kim Rigdon, Program Manager (**For Possible Action**)
11. Program Manager’s Report – Kim Rigdon, Water Resources Program Manager *
 - a. Report on the status of projects and Work Plan supported by the Regional Water Management Fund (RWMF).
 - b. Financial Report on the RWMF.
12. Discussion regarding location and possible agenda items for the upcoming NNWPC meetings, and possible direction to staff. – Kim Rigdon, Water Resources Program Manager (**For Possible Action**)
13. Commission Comments *
14. Staff Comments *
15. Public Comments * (Three-minute time limit per person.)
16. Adjournment (**For Possible Action**)

*Indicates a non-action item

DRAFT - MINUTES
NORTHERN NEVADA WATER PLANNING COMMISSION

Wednesday, June 1, 2022

The Northern Nevada Water Planning Commission (NNWPC) held a regular meeting on Wednesday, June 1, 2022 at the Washoe County Chambers, 1001 East Ninth Street, Reno, Nevada, and conducted the following business.

The meeting was called to order by Chair Solaro at 1:37 p.m.

1. Roll Call and Determination of Presence of a Quorum

Voting Members Present: Michael Drinkwater; John Enloe; Bill Hauck; Danielle Henderson (Zoom); Chris Melton; Dave Solaro; Michael Widmer; John Zimmerman

Voting Members Absent: John Flansberg; Mickey Hazelwood; John Martini; Mervin Wright

Non-Voting Members Present: None

Non-Voting Members Absent: Cindy Turiczek; Ron Penrose; Harry Fahnstock; Thomas Pyeatte

Staff Members Present: Kim Rigdon; Lucas Foletta; Jennifer Purgitt

2. Public Comment

None

3. Approval of Agenda (For Possible Action)

COMMISSIONER ZIMMERMAN MADE A MOTION TO APPROVE THE AGENDA, SECONDED BY COMMISSIONER MELTON. THE MOTION CARRIED UNANIMOUSLY WITH EIGHT (8) COMMISSIONERS PRESENT.

4. Approval of the Minutes from the May 4, 2022 NNWPC Meeting (For Possible Action)

COMMISSIONER ZIMMERMAN MADE A MOTION TO APPROVE THE MEETING MINUTES, SECONDED BY COMMISSIONER MELTON. THE MOTION CARRIED UNANIMOUSLY WITH EIGHT (8) COMMISSIONERS PRESENT.

5. Presentation and introduction of new staff, Birgit Widegren, Water Management Planner – Kim Rigdon, Water Resources Program Manager

Kim Rigdon, Water Resources Program Manager, introduced Birgit Widegren as the new Water Management Planner.

6. Presentation on National Science Foundation project at the University of Nevada, Reno (UNR), “Nevada Water: A Science-With-Society Research and Education Network” – Anne Nolan, UNR

Anne Nolan, UNR, gave a presentation on the network building opportunity called Nevada Water and answered questions from the Commission.

7. Report on Regional Aquifer Status of the Truckee Meadows – Nick White, Truckee Meadows Water Authority (TMWA)

Lauren Jones, TMWA, gave a presentation on the Regional Aquifer Status of the Truckee Meadows and answered questions from the Commission.

8. Action, discussion, and possible direction to staff, on the draft update to Chapter 4 “Wastewater and Effluent Management” for the 2021-2040 Comprehensive Regional Water Northern Nevada Water Planning Commission Agenda for June 1, 2022 Page 2 of 2 Management Plan (RWMP) – Jim Smitherman, Water Resource Consultant (For Possible Action)

Jim Smitherman, Water Resources Consultant, reported that staff did receive comments on this chapter after the staff report was distributed. Some of the comments need input from agency staff. Mr. Smitherman will email an updated draft of this chapter to the Commission members before the next meeting once he hears back from agency staff to address the comments that were received.

No action taken.

9. Action, discussion, and possible direction to staff, on the draft update to Chapter 10 “Issues and Action Plan” for the 2021-2040 RWMP – Kim Rigdon (For Possible Action)

Ms. Rigdon presented the staff report. Chapter 10 was provided to the NNWPC for review and comment at the May 4, 2022 meeting. Comments pertaining to the Flood Project were incorporated into Section 10.17 “Regional Flood Plain Management and Flood Control.” To date, no other comments have been received.

COMMISSIONER ENLOE MADE A MOTION TO ACCEPT THE RWMP DRAFT CHAPTER 10 “ISSUES AND ACTION PLAN,” AND PROVIDE DIRECTION TO STAFF AS APPROPRIATE CONCERNING THIS CHAPTER AS A PART OF THE DEVELOPMENT OF THE 2021-2040 RWMP, SECONDED BY COMMISSIONER WIDMER. THE MOTION CARRIED UNANIMOUSLY WITH EIGHT (8) COMMISSIONERS PRESENT.

10. Report and discussion on chapters and schedule related to the drafting and presentation of the 2021-2040 RWMP – Kim Rigdon

Ms. Rigdon reported she will tentatively schedule the NNWPC public hearing for August 3. Comments from that public hearing would be incorporated and brought back to the NNWPC on September 7 with a Western Regional Water Commission (WRWC) public hearing scheduled for October 19.

11. Action, discussion, and possible recommendation to the Western Regional Water Commission (WRWC) for approval of a scope of work and funding not to exceed \$462,954 from the Regional Water Management Fund (RWMF) for an inter-local agreement with UNR, Nevada Water Innovations Institute (NWII) for “Regional Water Management Coordination and Support” – Kim Rigdon (For Possible Action)

Ms. Rigdon presented the staff report. UNR has submitted a proposal to continue to support One Water Nevada to continue to determine if advanced purified water can provide long-term benefits to the region.

Staff proposes that the NNWPC forward a recommendation to the WRWC for approval of UNR’s scope of work and funding not to exceed \$462,954 from the RWMF, in accordance with the following Fiscal Year funding cycle: \$149,968 for Fiscal Year 2023, \$157,829 for Fiscal Year 2024 and \$155,157 for Fiscal Year 2025, contingent upon NNWPC priority setting and WRWC budget approvals, with a project completion date of June 30, 2025.

COMMISSIONER ENLOE MADE A MOTION TO FORWARD A RECOMMENDATION TO THE WRWC FOR APPROVAL OF UNR’S SCOPE OF WORK AND FUNDING NOT TO

EXCEED \$462,954 FROM THE RWMF, SECONDED BY COMMISSIONER DRINKWATER. THE MOTION CARRIED UNANIMOUSLY WITH EIGHT (8) COMMISSIONERS PRESENT.

12. Action, discussion, and possible recommendation to the WRWC for approval of a scope of work and funding not to exceed \$49,398 from the RWMF for a professional services agreement with the National Water Research Institute (NWRI) for the “OneWater Nevada, Expert Panel Review of the Advanced Purified Water Program at American Flat” – Kim Rigdon (For Possible Action)

Ms. Rigdon presented the staff report. NWRI has submitted a proposal to assemble an Independent Advisory Panel (IAP) of subject matter experts for review of the Advanced Purified Water Program at American Flat.

Staff proposes that the NNWPC forward a recommendation to the WRWC for approval of the NWRI scope of work and funding not to exceed \$49,398 from the RWMF, and a project completion date of June 30, 2023.

COMMISSIONER ZIMMERMAN MADE A MOTION TO ADOPT STAFF’S RECOMMENDATION, SECONDED BY COMMISSIONER ENLOE. THE MOTION CARRIED UNANIMOUSLY WITH EIGHT (8) COMMISSIONERS PRESENT.

13. Action, discussion, and possible recommendation to the WRWC for approval of a scope of work and funding not to exceed \$75,000 from the RWMF for an inter-local agreement with the Truckee River Foundation (TRF) to support the implementation of the One Truckee River (OTR) Management Plan, Phase 1 – Kim Rigdon (For Possible Action)

Ms. Rigdon presented the staff report. The TRF is seeking approval for a scope of work and funding not to exceed \$75,000 to continue to lead, coordinate, and fundraise for the OTR partnership, and to further the water quality management efforts listed in the staff report.

Staff proposes that the NNWPC forward a recommendation to the WRWC for approval of the Truckee River Foundation scope of work and funding not to exceed \$75,000 from the RWMF, and a project completion date of June 30, 2023.

COMMISSIONER ENLOE MADE A MOTION TO FORWARD A RECOMMENDATION TO THE WRWC FOR APPROVAL OF THE CONTRACT WITH TRF IN THE AMOUNT OF \$75,000, SECONDED BY CHAIR SOLARO. THE MOTION CARRIED UNANIMOUSLY WITH EIGHT (8) COMMISSIONERS PRESENT.

14. Program Manager’s Report – Kim Rigdon

- a. Report on the status of projects and Work Plan supported by the Regional Water Management Fund (RWMF)
- b. Financial Report on the RWMF

Ms. Rigdon presented the reports.

15. Discussion regarding location and possible agenda items for the upcoming NNWPC meetings, and possible direction to staff – Kim Rigdon (For Possible Action)

There was discussion regarding cancelling the July NNWPC meeting. The next NNWPC meeting will be August 3, 2022. The agenda will include: final review of RWMP Chapter 4; RWMP public hearing; presentation on the status of the wastewater source control program headed by UNR; and the consensus forecast.

COMMISSIONER HAUCK MADE A MOTION TO CANCEL THE JULY MEETING, SECONDED BY COMMISSIONER DRINKWATER. THE MOTION CARRIED UNANIMOUSLY WITH EIGHT (8) COMMISSIONERS PRESENT.

16. Commission Comments

None

17. Staff Comments

None

18. Public Comment

None

19. Adjournment (For Possible Action)

The meeting was adjourned at 2:39 p.m.

Respectfully submitted by Christine Birmingham.

Approved by:

Dave Solaro, NNWPC Chair

APPROVED BY COMMISSION IN SESSION ON _____, 2022.

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: July 29, 2022

TO: Chairman and Members, Northern Nevada Water Planning Commission (NNWPC)

FROM: Kimberly Rigdon, Water Resources Program Manager

SUBJECT: Action, discussion, and possible direction to staff and acceptance of revisions to Table 2-1 Water Resources Baseline Table (Table 2-1) for Washoe County within Chapter 2 “Water Resources” of the draft 2021-2040 Comprehensive Regional Water Management Plan (2021-2040 RWMP).

SUMMARY

Table 2-1 within Chapter 2 “Water Resources” of the 2021-2040 RWMP was presented to the NNWPC on February 3, 2021, for acceptance. The table included updated information as of August 2019. Staff received comments from members of the NNWPC to perform a more current review of Table 2-1 and validate the information in the table. Subsequently, Table 2-1 was updated and revised as follows:

- Updated the “Water Rights: Decreed, State Engineer Permitted and/or Certificated” column with the most current Hydrographic Area Summary reports (as of February 2022) provided by the Nevada Division of Water Resources (State Engineer) for Basins 83, 84, 87 89, 91, 92A & 92B, and 21.
- Corrected the “Estimated Perennial Yield” column for Basins 87 and 88.
- Removed the “Imported/Exported Supplies” column. This information is supplemental and was not used in the overall calculations for Total Estimated Sustainable Water Resources.
- Removed the “Estimated M&I Commitments” column and subsequent “Comments” columns because the information is outdated.

The revisions to the data result in “Estimated Sustainable Water Resources” of 192,988 acre-feet annually (afa) and the modified Table 2-1 has been incorporated into the 2021-2040 RWMP. The revised Chapter 2 may be downloaded at http://www.wrwc.us/2021-2040_draft_chapters.html.

BACKGROUND

The Western Regional Water Commission Act Section 41(d) requires the RWMP identify and provide for existing and future sources of water to meet the present or future needs of the planning area. Further, the Regional Planning Governing Board adopted certain amendments to the Truckee Meadows Regional Plan identifying the NNWPC and Western Regional Water Commission as the entities to perform a comparison, prior to the adoption of the Consensus

Forecast for Washoe County, of the estimated population that can be supported by the sustainable water resources as set forth in the RWMP (provided in Table 2-1).

RECOMMENDATION

Staff proposes the NNWPC accept the revisions to Chapter 2 “Water Resources” Table 2-1 for inclusion in the 2021-2040 RWMP with or without changes and provide direction to staff as appropriate.

KR:BW:jp

Attachment 5a Table 2-1 Updated February 2022

Attachment 5b Table 2-1 Updated August 2019

Table 2-1: Water Resource Baseline Table for Washoe County
Updated February 2022

Basin #	Basin	Water Rights: Decreed, State Engineer Permitted, and/or Certificated Rights*	Estimated Perennial Yield	Estimated Sustainable Water Resources	Notes	Estimated Existing Domestic Well Allocation (-8)	Comments
		(afa)	(afa)	(afa)		(afa)**	
83	TRACY SEGMENT						
	Perennial Groundwater	11,091	11,500	11,091	-1	90	Irrigation (641 afa), Stock (29 afa), Commercial (405 afa) and Industrial (1,738 afa) water right conversion subject to reduction. Mining and Milling water rights (696 afa) may not be available for conversion.
84	WARM SPRINGS VALLEY						
	Perennial Groundwater	6,886	3,000	3,000	-1	1,020	Irrigation water rights (5,322 afa), Stock (41 afa), Commercial (44 afa), and Domestic (628 afa) are subject to conversion reduction. Recreation (28 afa) and Environmental water rights (556 afa) are not available for conversion.
85	SPANISH SPRINGS VALLEY						
	Perennial Groundwater	6,326	1,000	1,000	-1	430	Water rights and domestic well allocations exceed perennial yield. Irrigation 598 afa), Stock (23 afa), and Commercial (174 afa) water right conversion subject to reduction. Recreation (609 afa) water rights may not be available for conversion.
86	SUN VALLEY						
	Perennial Groundwater	14	25	14	-1	90	Water rights and domestic well allocations exceed perennial yield. Irrigation water rights (14 afa) are subject to conversion reduction.
87/88	TRUCKEE MEADOWS/PLEASANT VALLEY						
	Perennial Groundwater	46,595	30,000	30,000	-2	2,450	Irrigation (8,815 afa), Stock (69 afa), Commercial (1,061 afa), and Industrial (1,088 afa) water right conversion subject to reduction.
	Truckee River†	188,020***	--	103,000	-3		Environmental (3,867 afa), Recreation (1,040 afa), Wildlife (1,327 afa), and Other (84 afa) may not be available for conversion.
	Truckee River-Tributary	36,380	--	--	-4		
89	WASHOE VALLEY						
	Perennial Groundwater	10,372	15,000	10,372	-1	1,750	Irrigation (5882 afa), Stock (68 afa), Commercial (19 afa), and Industrial (0 afa) water right conversion subject to reduction. Mining & Mineral (0 afa), Recreation (955 afa), Wildlife (832 afa), and Other (2 afa) may not be available for conversion.
	Washoe Valley Creeks	25,280	--	--	-4		Washoe Lake, the headwaters of Steamboat Creek, is fed by McEwen, Bryan, Musgrove, Thompson, Lewers, Davis, White Rock, Little Valley, Frantown, and Ophir creeks.
91	TRUCKEE CANYON SEGMENT						
	Perennial Groundwater	3415	2000	2,000	-1	530	Commercial (64 afa), Domestic (268 afa), Irrigation (69 afa), and Stock (124 afa) are subject to conversion reduction. Recreation (3 afa) are not available for conversion.
92A/92B	LEMMON VALLEY (WEST & EAST)						
	Perennial Groundwater	2853	1300	1,300	-5	2,160	Water rights and domestic well allocations exceed perennial yield. Irrigation (8 afa), Domestic (62 afa), Commercial (32 afa), and Industrial (2 afa) are subject to conversion reduction. Environmental water rights (123 afa) and Recreation (78 afa) are not available for conversion.
93	ANTELOPE VALLEY						

Basin #	Basin	Water Rights: Decreed, State Engineer Permitted, and/or Certificated Rights*	Estimated Perennial Yield	Estimated Sustainable Water Resources	Notes	Estimated Existing Domestic Well Allocation (-8)	Comments
	Perennial Groundwater	70	150	70	-1	210	Water rights and domestic well allocations exceed perennial yield. Domestic (12 afa) and Stock (2 afa) are subject to conversion reduction.
94	BEDELL FLAT						
	Perennial Groundwater	39	550	39	-1	70	Commercial (9 afa), Domestic (8 afa), and Stock (22 afa) are subject to conversion reduction.
95	DRY VALLEY						
	Perennial Groundwater	26	3,000	26	-1	10	Irrigation water rights (25 afa) are subject to conversion reduction.
97	HONEY LAKE VALLEY						
	Perennial Groundwater†	13,690	13,000	13,000	-1	30	Irrigation water rights (1,240 afa) and Stock (29 afa) are subject to conversion reduction.
99	RED ROCK VALLEY						
	Perennial Groundwater	1,076	1,200	1,076	-1	380	Commercial (5 afa), Irrigation water rights (564 afa), and Stock (3 afa) are subject to conversion reduction.
100/100A	COLD SPRINGS VALLEY/LONG VALLEY SUB-AREA						
	Perennial Groundwater	4,766	1,000	1,000	-6	230	Water rights and domestic well allocations exceed perennial yield. Irrigation water rights (1,105 afa), Commercial (1 afa) and Stock (5 afa) are subject to conversion reduction. Environmental water rights (40 afa) are not available for conversion.
21	SMOKE CREEK DESERT						
	Perennial Groundwater	56,071	16,000	16,000	-7	10	Irrigation water rights (55,561 afa), Stock (52 afa), and Commercial (8 afa) are subject to conversion reduction. Water rights issued for Wildlife (449 afa) may have significant encumbrances making them unavailable for conversion to M&I or subject to conversion reduction.
Total Estimated Sustainable Water Resources				192,988			

NOTES:

afa = Acre-Feet Annually

M&I = municipal and industrial

* Water rights include temporary rights, supplemental rights, nonconvertible rights, and rights subject to reduction upon conversion based on the State Engineer's policy.

** Water right values rounded to nearest 10 acre-feet per annum.

*** Orr Ditch Decree total of approximately 188,024 afa of rights excluding Claims 3 & 4.

-- No data.

† Exports of water resources not limited to specified hydrobasins and are subject to change based on future needs.

-1 Groundwater availability based on State Engineer's estimate of Perennial Yield subject to final determination.

-2 Groundwater availability for the Truckee Meadows and Pleasant Valley Hydrobasins combined based on State Engineer's estimate of perennial yield.

-3 Portion of the Truckee River Operating Agreement 119,000 water supply dedicated to supply demand in the Truckee Meadows; excluding 15,950 afa of groundwater production permitted by State Engineer's Office.

-4 No State Engineer estimate of perennial yield that could be used for M&I.

-5 Combined State Engineer's estimate of perennial yield for Lemmon Valley West and Lemmon Valley East.

-7 Potential water importation project; pending water right applications and approval for export from hydrobasin subject to State Engineers' approval.

-8 Based on Washoe County Water Resource geographic information system database count using Washoe County Assessor's records and State Engineer's Well-Log database, allocation assumes 1 afa per well.

Table 2-1 Water Resource Baseline Table for Washoe County

Updated August 2019

Basin #	Basin	Water Rights: Decreased, State Engineer permitted, and/or certificated rights*	Estimated Perennial Yield	Estimated Sustainable Water Resources	Notes	Imported/ (exported) Supplies	Estimated M&I Commitments	Comments	Estimated Existing Domestic Well Allocation (9)	Comments
---a---	---b---	---c---	---d---	---e---		---f---	---g---		---h---	---i---
83	TRACY SEGMENT									
	Perennial Groundwater	11241	11500	11241	(1)		160	C-1	90	Irrigation (641 afa), Stock (29 afa), Commercial (405 afa) and Industrial (1,692 afa) water right conversion subject to reduction. Mining and Milling water rights (656 afa) may not be available for conversion.
84	WARM SPRINGS V.									
	Perennial Groundwater	6408	3000	3000	(1)		0	C-1	1020	Irrigation water rights (4795 afa), Stock (45 afa), Commercial 20 afa, Domestic 622 afa are subject to conversion reduction. Recreation (28 afa) and Environmental water rights (556 afa) are not available for conversion.
85	SPANISH SPRINGS V.									
	Perennial Groundwater	6326	1000	1000	(1)		5370	C-1	430	Water rights and domestic well allocations exceed perennial yield. Irrigation 598 afa), Stock (23 afa) and Commercial (174 afa) water right conversion subject to reduction. Recreation (609 afa) water rights may not be available for conversion.
	Truckee River Importation†				(2)	3920	3920			
86	SUN V.									
	Perennial Groundwater	14	25	14	(1)		0	C-1	90	Water rights and domestic well allocations exceed perennial yield. Irrigation water rights (14 afa) are subject to conversion reduction.
	Truckee River Importation†				(2)	2380	2380			
87/88	TRUCKEE MEADOWS/PLEASANT V									
	Perennial Groundwater	46602	46602	46602	(3)		23530	C-1	2450	Irrigation (8,812 afa), Stock 69 afa), Commercial (1,066 afa) and Industrial (1,088 afa) water right conversion subject to reduction. Environmental (3,867 afa), Recreation (1,062 afa), Wildlife (1,327 afa) and Other (84 afa) may not be available for conversion.
	Truckee River†	188020***	103000	103000	(4)	(10650)	84000			
	Truckee River-Tributary	36380	--	--	(5)		2350	C-4		
89	WASHOE V.									
	Perennial Groundwater	10395	15000	15000	(1)		840	C-1	1750	Irrigation (5895 afa), Stock(68 afa), Commercial (26 afa) and Industrial (0 afa) water right conversion subject to reduction. Mining & Mineral (0 afa), Recreation (955 afa), Wildlife (832 afa) and Other (2 afa) may not be available for conversion.
	Washoe Valley Creeks	25280	--	--	(5)					Washoe Lake, the headwaters of Steamboat Creek, is fed by McEwen, Bryan, Musgrove, Thompson, Lewers, Davis, White Rock, Little Valley, Franktown, and Ophir creeks.
91	TRUCKEE CANYON SEGMENT									
	Perennial Groundwater	3315	2000	2000	(1)		10		530	Commercial (38 afa), Domestic (261 afa), Industrial (1 afa), Irrigation (68 afa), and Stock (124 afa), subject to conversion reduction. Recreation (3 afa) are not available for conversion.
92A/92B	LEMMON V. (WEST & EAST)									
	Perennial Groundwater	2860	1300	1300	(6)		840	C-1	2160	Water rights and domestic well allocations exceed perennial yield. Irrigation (8 afa), Domestic (62 afa), Commercial (32 afa) and Industrial (2 afa) subject to conversion reduction. Environmental water rights (123 afa) and Recreation (78 afa) are not available for conversion.
	Truckee River Importation†				(2)	4350	4350			
	Honey Lake Importation†				(7)	8000	0	C-2		
93	ANTELOPE V.									
	Perennial Groundwater	70	150	70	(1)		0	C-1	210	Water rights and domestic well allocations exceed perennial yield. Domestic (12 afa) and Stock (2 afa) subject to conversion reduction.
94	BEDELL FLAT									
	Perennial Groundwater	39	550	550	(1)		0	C-1	70	Commercial (9 afa), Domestic (8 afa) and Stock (22 afa) subject to conversion reduction.
95	DRY V.									
	Perennial Groundwater	26	3000	3000	(1)		0	C-1	10	Irrigation water rights (25 afa) subject to conversion reduction.
97	HONEY LAKE V.									
	Perennial Groundwater†	13690	13000	13000	(1)	(8000)	0	C-1	30	Irrigation water rights 1540 afa) and Stock (29 afa) are subject to conversion reduction.
99	RED ROCK V.									
	Perennial Groundwater	1036	1200	1200	(1)		0	C-1	380	Commercial (5 afa), Irrigation water rights (164 afa), and Stock (3 afa) are subject to conversion reduction.
100/100A	COLD SPRING V./LONG V. SUB AREA									
	Perennial Groundwater	4766	1000	1000	(8)		2400	C-3	230	Water rights and domestic well allocations exceed perennial yield. Irrigation water rights (1105 afa), Commercial (1 afa) and Stock (5 afa) are subject to conversion reduction. Environmental water rights (40 afa) are not available for conversion.
21	SMOKE CREEK DESERT									
	Perennial Groundwater	56,798	16,000	16000	(12)		0		10	Irrigation water rights (56,598 afa), Stock (89 afa) and Commercial (8 afa) subject to conversion reduction. Water rights issued for Wildlife (449 afa) may have significant encumbrances making them unavailable for conversion to M&I or subject to conversion reduction.
Total Estimated Sustainable Water Resources				217,978						

NOTES:

- * Water rights include temporary rights, supplemental rights, nonconvertible rights and rights subject to reduction upon conversion based on State Engineer's policy.
- ** Water right values rounded to nearest ten acre-feet annum.
- *** Orr Ditch Decree total of approx. 188,024 afa of main stem rights excluding Claims 3 & 4.
- No data.
- † Exports of water resources not limited to specified hydrobasins and are subject to change based on future needs.
- (1) Groundwater availability based on State Engineer's estimate of Perennial Yield subject to final determination (Tracy Segment ruling currently under appeal).
- (2) Imported allocation of TMWA's resources.
- (3) Groundwater availability for the Truckee Meadows and Pleasant Valley Hydrobasins combined based on State Engineer's estimate of Perennial yield.
- (4) Portion of TROA 119,000 water supply dedicated to supply demand in the Truckee Meadows; excluding 15,950 AFA of groundwater production permitted by State Engineer's Office.
- (5) No State Engineer estimate of perennial yield which could be used for M&I
- (6) Combined State Engineer's estimate of perennial yield for Lemmon Valley West and East.
- (7) Importation of groundwater from Honey Lake Hydrobasin.
- (8) Combined State Engineer's estimate of perennial yield for Cold Spring Valley and Long Valley Sub basin area.

- (9) Based on Washoe County Water Resource GIS database count using Washoe County Assessor's records and State Engineer's Well-Log database, allocation assumes 1 afa per well.
- (10) Water rights based on 4000 afa from STMWRF and 6700 afa from TMWRF. Estimated yield based on 2006 TMWRF, Sparks and Reno data records (ECO.LOGIC)
- (11) 2006 reclaimed water data from RSWRF, and Washoe County DWR wastewater influent records for STMWRF, CSWRF and LVWRF (Washoe County, DWR)
- (12) Potential water importation project; Pending water right applications and approval for export from hydrobasin subject to State Engineers' approval.

COMMENTS ON COMMITMENTS

- C-1 Groundwater dedications/duty by TMWA to serve commitments as reported in the January 24, 2007, Fourth Quarter 2006 report to the State Engineer's Office. Not amended to account for supplemental rights.
- C-2 Commitments not yet established for imported groundwater. TMWA may use available uncommitted imported groundwater to serve existing customers in Lemon Valley. Not amended to account for supplemental rights.
- C-3 Based on State Engineer's Manor of Use Records for 2006 and Utilities Inc. water budget for Cold Springs. Not amended to account for supplemental rights.
- C-4 Creek rights committed for return flow. Adjusted per the State Engineer based on priority

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: July 29, 2022
TO: Chairman and Members, Northern Nevada Water Planning Commission (NNWPC)
FROM: Kim Rigdon, Water Resources Program Manager
SUBJECT: Action, discussion, and possible direction to staff, on the draft update to Chapter 4 “Wastewater and Effluent Management” for the 2021-2040 Comprehensive Regional Water Management Plan (2021-2040 RWMP)

SUMMARY

The draft update of Chapter 4 “Wastewater and Effluent Management Planning” for the 2021-2040 RWMP consists of sections generally describing wastewater service providers, water reclamation facilities (WRFs), environmental control and pretreatment programs, effluent management practices, regional effluent management efforts, and studies and programs to address certain areas served by septic systems.

Comments have been received since the chapter was presented on June 1, 2022. Minor edits and the following revisions were incorporated into the chapter:

Section 4.4.1 Golden Valley: a discussion was included for groundwater recharge project suspension in April 2017.

Section 4.4.2 Spanish Springs: the discussion on phased sewerage of existing septic systems was updated and dated information was removed.

Section 4.4.3 Warm Springs: this section was updated to reflect the potential for a future wastewater treatment plant that may eventually serve planned residential development and that much of the land in the Warm Springs planning area is being contemplated for the Palomino Farms Sustainable Water Resource project concept.

The draft revised chapter can be downloaded at http://www.wrwc.us/2021-2040_draft_chapters.html.

RECOMMENDATION

Staff proposes the NNWPC accept draft Chapter 4 “Wastewater and Effluent Management Planning” of the 2021-2040 RWMP with or without changes and provide direction to staff as appropriate.

KR:BW:jp

Attachment: 2021-2040 RWMP Chapter 4 “Wastewater and Effluent Management.”

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: July 29, 2022
TO: Chairman and Members, Northern Nevada Water Planning Commission
FROM: Kimberly Rigdon, Water Resources Program Manager and Birgit Widegren, Water Management Planner
SUBJECT: Action, discussion and possible direction to staff on the final review and acceptance of revisions included in the 2021-2040 Comprehensive Regional Water Management Plan (2021-2040 RWMP)

SUMMARY

Staff has revised draft chapters of the 2021-2040 RWMP. All the revised chapters have been brought to the NNWPC for review and acceptance. Major material revisions are tabulated by chapter and section title in Attachment 7a: 2021-2040 RWMP Chapter Changes. Revised chapters can be downloaded at http://www.wrwc.us/2021-2040_draft_chapters.html.

BACKGROUND

Staff began updating the 2021-2040 RWMP in October 2020 and brought revised chapters individually to the NNWPC for review, discussion, direction and acceptance throughout 2020, 2021 and 2022. The final revisions for Chapter 2 and Chapter 4 were brought under Items 5 and 6, respectively. Attachment 7b, the 2021-2040 RWMP Update Schedule, visually depicts when chapters were updated, reviewed and accepted by the NNWPC, and outlines the proposed schedule for approval by the NNWPC, adoption by the WRWC and Regional Planning Commission review for consistency.

RECOMMENDATION

Staff proposes that the NNWPC accept the final draft revisions included in the 2021-2040 RWMP with or without changes and provide direction to staff as appropriate.

BW:KR:jp

Attachments: 7a 2021-2040 RWMP Chapter Changes
7b 2021-2040 RWMP Update Schedule

Chapter	Material Changes
<p>Chapter 1: Regional Water Planning Policies and Criteria - This chapter outlines the policies, goals and objectives applied to adequately evaluate alternatives for meeting the Planning Area’s needs for municipal and industrial water supply, sanitary sewerage, sewage treatment, stormwater drainage, and flood control; and to evaluate future projects for conformance with the Plan.</p>	<p>1.1.b Water Conservation - section titled Reduction in the Use of Truckee River Water Resulting from Demand-Side Management Programs deleted by TMWA to be consistent with the 2040 WRP.</p> <p>1.1.c Evaluation of the Unexercised Portion of Committed Water Supplies – TMWA updated discussion section.</p> <p>1.2 Conjunctive Management of Surface Water and Groundwater Supplies to Withstand an 8-year Drought Cycle – updated discussion to be consistent with TMWA’s WRP.</p> <p>1.2.e New Water Resources/Importation – comments regarding Category A+ water and discussion of impacts from water importation into closed basins.</p> <p>1.3.b Integrated Source Water and Wellhead Protection – updated title and included discussion of Integrated Source Water Protection Planning.</p> <p>1.3.1.g Management Strategies for Slopes Greater than 15 Percent – deleted this section as policies are enforced by regional land planning and local community development entities.</p> <p>1.4.1 Facility Plans – Conformance with Regional Water Plan – updated to reflect WRWC May 20, 2021 Conformance Resolution.</p>
<p>Chapter 2: Water Resources - This chapter describes various sources of water available to meet the present and future needs in the Planning Area. It also discusses the quality of surface water and groundwater and describes certain programs concerning pollution prevention and cleanup to provide for adequate supplies of municipal and industrial water for the Planning Area.</p>	<p>Table 2.1 – Water Baseline Table – Table was updated to reflect conditions as of February 2022. The total estimated sustainable water resources for the planning area were calculated to be 192,988 AFA for the 2021-2040 planning horizon, which will be used to evaluate the TMRPA 2022 and 2024 Consensus Population Forecasts.</p> <p>2.2.3.2 Orr Ditch Decree and Water Quality Settlement Agreement – Updated discussion of the Orr Ditch Decree and Water Quality Settlement Agreement.</p> <p>2.2.4.1 Weather -Droughts - TMWA provided revised discussion, figures and tables about drought to be consistent with their WRP.</p> <p>2.2.4.3 Aquifer Storage and Recovery - TMWA provided updated discussion regarding the current efforts consistent with their WRP.</p>
<p>Chapter 3: Water Purveyors and Other Water Providers - This chapter describes the various water purveyors in the Planning Area, including public purveyors and other providers of water. In addition, a section describing reclaimed water purveyors is included. Subjects covered in this chapter include service areas; major facilities to treat, convey, and store water; conjunctive use; aquifer recharge; aquifer storage and recovery; water deliveries; average and peak demands; peaking capacity; and water resource dedication policies.</p>	<p>3.1.1 Truckee Meadows Water Authority - Updated discussion to be consistent with TMWA’s WRP. Updated Table 3-2 .</p> <p>Table 3-4 Public Water Systems in Washoe County – Updated base on Washoe County Health Department Records.</p> <p>3.4 Domestic Wells - Updated by Washoe County to reflect current Article 422 requirements.</p> <p>3.6.1 Water Rights Dedication Requirements for Municipal Service - Updated discussion to be consistent with TMWA’s WRP.</p>

Chapter	Material Changes
<p>Chapter 4: Wastewater and Effluent Management - This chapter provides background information and the status of regional wastewater facilities, and subsequent effluent management planning. It also presents planning and management issues that require action and/or further evaluation. Wastewater facility planning and effluent management are considered with other water management planning objectives to determine appropriate future actions and recommendations.</p>	<p>4.1 Wastewater Service Providers - revised to provide regional context and the addition of a map developed by TMRPA showing jurisdictional boundaries within service areas.</p> <p>4.2 Water Reclamation Facilities - revised to reflect the present status of the 5 regional WRFs including ownership, location, capacity, treatment processes, facility planning and environmental control and pretreatment programs. This section now includes a description of the Regional Wastewater Source Water Quality Control Plan that is under development.</p> <p>4.3 Regional Effluent Management Planning - revised to include the latest information on regional effluent management efforts. Descriptions of the proposed Palomino Farms Sustainable Water Resources Feasibility Study and the Long Valley Creek effluent discharge study appear as subsections. A description of the Regional Effluent Management Guidance Document currently under development was included as a subsection. Descriptions of OneWater Nevada, the Advanced Purified Water Program at American Flat and the pipeline project to supply TMWRF reclaimed water to Tahoe Reno Industrial GID were developed.</p> <p>4.4 Septic Systems - revised (shortened) to include only the most pertinent information for planning over the next 5 years. Spanish Springs: the discussion on phased sewerage of existing septic systems was updated and dated information was removed. Golden Valley: a discussion was included for groundwater recharge project suspension in April 2017. Warm Springs: this section was updated to reflect the potential for a future wastewater treatment plant that may eventually serve planned residential development and that much of the land in the Warm Springs planning area is being contemplated for the Palomino Farms Sustainable Water Resource project concept.</p>
<p>Chapter 5: Stormwater and Watershed Based Water Quality Planning - The purpose of this chapter is to provide background information, status of the regional stormwater and watershed-based water quality regulations, the Truckee Meadows Regional Stormwater Quality Management Program (SWMP), interagency and stakeholder collaboration, restoration projects, as well as key watershed management plans. This is a new chapter and some of this information was previously in Chapter 4.</p>	<p>5.1 Regulatory Guidance and Other Programs – includes Clean Water Act, NPDES Permitting, Water Quality Standards, 303(d) List of Impaired Water, PLPT Water Quality Control Plan, Triennial Review, and Water Quality Standards, Stormwater Program, and Noxious Weed Control.</p> <p>5.2 Stakeholders and Resources for Watershed Management and Protection in the Truckee Meadows – discusses the major stakeholders in stormwater and water quality planning and tools utilized.</p> <p>5.3 Aquatic Resources Permitting and Restoration Efforts – discusses restoration efforts in the Planning Area.</p> <p>5.4 Key Watershed Management Programs/Plans and Current Projects – discusses main programs and plans including the Stormwater Management Program, interagency collaboration efforts, source water and watershed protection plans, and watershed assessments.</p>
<p>Chapter 6: Flood Management and Stormwater Drainage - This chapter describes the various entities that provide flood management or stormwater drainage services within the Planning Area, including the Truckee River Flood Management Authority (TRFMA), its governing body and plans; the City of Reno; the City of Sparks; and Washoe County. Subjects covered in this chapter include flooding history; types of floods; federal programs; federal, state and local laws; progress on the TRFMA's Truckee River Flood Management Project (Flood Project), structural and nonstructural alternatives for flood control, local drainage programs, flood control and drainage facility design standards, regional facilities, and facilities for single drainage basins.</p>	<p>6.6.2 Flood Project Goals – TMFMA updated the goals pertaining to the current flood project Plan.</p> <p>6.6.3 Flood Project Elements – This section was revised to reflect the current flood project goals which have been revised since the last update.</p> <p>6.6.4 Flood Project Cost and Funding – This section was revised to reflect the cost related to the revised project elements outlined in Section 6.6.3</p> <p>6.6.5 Federal Support for the Flood Project – Updated discussion regarding the status of the National Economic Development Plan versus the Locally Preferred Plan.</p> <p>6.7.1 Floodplain Storage and Critical Flood Pools - revised to include City of Reno Title 18 Zoning Code changes for Critical Flood Zone 1 requirements outlined in Section 18.14.102(C)(8).</p> <p>6.7.2 Floodplain Management - revised to include updated drainage code references outlined in Table 6-3.</p>

Chapter	Material Changes
<p>Chapter 6: Flood Management and Stormwater Drainage-Continued</p>	<p>6.8.3 Lemmon Valley Hydrographic Basins – Added discussion regarding current efforts involving flood mitigation measures being implemented for Swan Lake and discussion regarding future efforts under consideration to help alleviate future flooding for both Lemmon Valley East and West.</p>
	<p>6.8.8 Antelope Valley Hydrographic Basin – Added comment regarding the need for closed basin water balance analysis of water importation, wastewater disposal and storm water to mitigate issues related to future development.</p>
	<p>6.8.3 Cold Springs Valley Hydrographic Basin – Added comment regarding the need for closed basin water balance analysis of water importation, wastewater disposal and storm water to mitigate issues related to future development. Revised to add the City of Reno retention policy for the Swan Lake, Silver Lake and White Lake Basins requiring retention of an increase in storm water runoff volume at a ratio of 1.3:1.</p>
<p>Chapter 7: Population Forecast and Projects of Water Demand, Peak Day Requirement and Wastewater Flow - This chapter uses the Washoe County Consensus Population Forecast (Truckee Meadows Regional Planning Agency [TMRPA] 2020), the Truckee Meadows Water Authority (TMWA) 2020-2040 Water Resource Plan (TMWA 2020) and the TMRPA 2020 Land Use Model (LUM) as the basis for estimating the future needs of the Planning Area with respect to water demands, including peak day requirements, wastewater flows, treatment capacity, and effluent management capacity.</p>	<p>7.1 Comparison of the Consensus Population Forecast and the Estimated Population that can be Supported by the Sustainable Water Resources in the Planning Area - significant changes were made to 7.1.1 Consensus Population Forecast to include updated forecast and to 7.2.2 Water Demand and Population Projections to include updated projected demand.</p>
	<p>Figure 7-1 Water Balance Map – revised based on comments.</p>
	<p>7.2.1 Water Demand Projections - revised to include updated water use projections and peak day production projections provided by TMWA consistent with the TMWA 2040 WRP. Minor changes to TMWA's projection methodology are also included.</p>
	<p>7.2.2 Wastewater Flow Projections - revised wastewater flow projections were included. The methodology for two model runs, and results from the preferred model run were included. TMRPA worked closely with WRWC staff and the Regional Effluent Management Team to refine the modeling methodology and produce the preferred model results.</p>
<p>7.3 Water Balance Map - revised to help explain the updated Water Balance Map, Figure 7-1. Revised sections include Table 7-6 and Sections 7.3.1 and 7.3.2 to reflect current regional effluent planning and for consistency with the updated water balance map.</p>	
<p>Chapter 8: Water Conservation Plan - The goal of this chapter is to present a water conservation plan that assists the County, cities, residents, businesses, and other entities in using only the water that is needed to achieve a desirable and sustainable quality of life. This water conservation plan describes water conservation programs and ordinances in effect at present in the Planning Area and pending proposals for water conservation, both indoor and outdoor.</p>	<p>8.1.1 Extending drought water supplies – revised to clarify how TROA has created flexibility in river operations for TMWA.</p>
	<p>8.1.6 Improving fisheries and habitat – revised to clarify how TROA allows flexibility for water release intended for fisheries.</p>
	<p>8.3 Measuring Progress - Updated figure 8-1 regarding per-capita water use and minor discussion edits.</p>
	<p>8.4.3 Elements of Water Conservation Section 1 - Updated information regarding TMWAs discussion regarding Water Usage Review and Landscaping Retrofit Programs.</p>
	<p>8.6 Future Water Conservation Initiatives - Update on Dual Water Delivery Systems.</p>
	<p>8.7.1 Drought Contingency Plan (Tables and Figures) - Substantial updated information regarding drought severity along with updated tables and figures.</p>

Chapter	Material Changes
<p>Chapter 9: Cost and Financing - This chapter satisfies Section 42.7 of the Act, presenting a summary of the costs associated with planned major facility improvements for water, wastewater, reclaimed water, storm drain, and flood management in the Planning Area. The chapter also provides an overview on funding sources and the potential impacts of capital facilities costs on both existing and future users.</p>	<p><i>All tables revised with CIP costs for the region.</i></p>
<p>Chapter 10: Issues and Action Plan - This chapter summarizes regional water management issues that were introduced and discussed in preceding chapters. The summaries briefly discuss work that has been performed in response to the issues, identify alternatives if developed, present work activities in response to ongoing and newly identified issues, and recommend future work and activities.</p>	<p>10.1 through 10.8 - discusses the Truckee Meadows Water Authority (TMWA) Water Resource Plan updates, water and wastewater facilities, effluent management, and subsequent water balance discussions where applicable for each geographic planning area.</p> <p>10.10 Groundwater Resource Development and Impact to Domestic Wells - modified primarily to omit outdated information and other minor edits.</p> <p>10.11 Water Conservation - modified to omit outdated information and other minor edits.</p> <p>10.12 Integrated Use of Water Rights - rewritten to reflect current and broad planning water rights issues and competing priorities. Water imbalances in the planning area are not due to resource availability, rather issues are related to resources management and resulting impacts, including benefit allocations and costs. Additional work related to regional cooperative management strategies are outlined.</p> <p>10.13 Septic Systems and Water Quality - significantly pared down and reflects historical studies are memorialized in previous RWMP editions.</p> <p>10.14 Truckee Meadows NPDES Storm Water Discharge Permit - minimal changes which provide support for funding applications to the Nevada Division of Environmental Protection (NDEP) for 319(h) grants for storm water and watershed projects.</p> <p>10.15 Water Resources and Land Use Planning - minor updates including continued coordination with the Truckee Meadow Regional Planning Agency (TMRPA) to integrate water resource management with land use planning. Coordination for the TMRPA Natural Resources Plan and Public Infrastructure Investment Plan initiatives, population forecast data alignment, source water and watershed protection and regional flood facility inventory and modeling activities were included.</p> <p>10.16 Local Government Drainage Programs – minor updates and actions to evaluate a portion of the Steamboat Irrigation Ditch through urbanized areas, and assess potential flood control outlet improvements on the Steamboat Ditch.</p> <p>10.17 Regional Flood Plain Management and Flood Control - minor updates and continued support for TRFMA efforts to develop funding for the Flood Project.</p> <p>10.18 Water Quality Protection and Remediation - includes updates from NDEP on a new municipal well field comprised of six wells to the north of the Sparks Solvent/Fuel Site tank farm that may result in changes to local hydrodynamics when put into operation. NDEP will coordinate closely with the Central Truckee Meadows Remediation District and TMWA on further investigations in the area. In addition, NDEP is currently evaluating options to discontinue groundwater monitoring associated with the PCE Plume in Lemmon Valley due to decreasing and stable plume concentration trends.</p> <p>10.19 Source Water and Watershed Protection - discusses the completion of the regional source water and watershed planning effort, acceptance of the 2020 Integrated Source Water and 319(h) Watershed Protection Plan for Public Water Systems and the Truckee River in the Truckee Meadows (SWWP). The SWWP was accepted by the WRWC in October 2020 and approved by both NDEP and EPA in October 2021.</p>

2021-2040 Comprehensive Regional Water Management Plan Update Schedule

As of August 3, 2022

Chapter	2020												2021												2022											
	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
Chapter 1 - Regional Water Planning Policies and Criteria													*																							
Chapter 2 - Water Resources									*																											
Chapter 3 - Water Purveyors and Other Water Providers									*																											
Chapter 4 - Wastewater and Effluent Management																										*										
Chapter 5 - Storm Water and Watershed-Based Water Quality Planning													*																							
Chapter 6 - Flood Management and Storm Water Drainage																								*												
Chapter 7 - Population Forecast and Water Demand and Flow Projections																																				
Chapter 8 - Water Conservation Plan - Efficient Use of Water									*																											
Chapter 9 - Cost and Financing																								*												
Chapter 10 - Issues and Action Plan																								*												

- Chapter undergoing Update
- Chapter under review for acceptance by NNWPC
- Package Plan
- Public Hearing on RWMP for approval by NNWPC
- 30-Day public review Period
- Public Hearing on Adoption of the RWMP by WRWC
- 40-day Regional Planning Commission review for Consistency

1
2
3
4

- Notes:** Final adoption requirements:
- * Denotes Chapter in final draft phase accepted by NNWPC
 - 1. 10-day notice issued in advance of NNWPC Public hearing to recommend Plan update to the WRWC.
 - 2. Notice of public review of Plan at the County Clerks office and initiation of 30-day public review period.
 - 3. 10-day notice issued in advance of WRWC Public hearing to adopt plan.
 - 4. Following plan adoption commencement of 40-day review Regional Planning Commission for consistency.

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: July 29, 2022
TO: Chairman and Members, Northern Nevada Water Planning Commission (NNWPC)
FROM: Kimberly Rigdon, Water Resources Program Manager
SUBJECT: **PUBLIC HEARING** Action, discussion, and possible approval of the 2021-2040 Comprehensive Regional Water Management Plan (2021-2040 RWMP)

SUMMARY

Staff updated the 2021-2040 RWMP and presented revisions to the NNWPC under Item 7 for acceptance. Notice of this public hearing was given July 24, 2022 in the Reno Gazette Journal. If approved, the 2021-2040 RWMP will be available for public review and comment for 30 days beginning August 3, 2022. A hard copy will be made available at the Washoe County Community Services Department front desk, and a digital copy is available for download on the Western Regional Water Commission ([WRWC](#)) and [NNWPC](#) websites. If approved, the 2021-2040 RWMP will be submitted to the WRWC during a public hearing tentatively scheduled for October 19, 2022.

BACKGROUND

Provisions of Chapter 531, *Statutes of Nevada 2007*, the Western Regional Water Commission Act (the Act), Section 45(2) requires the NNWPC to hold at least one public hearing on a proposed amendment to the adopted RWMP within the planning area before submitting it to the WRWC for adoption.

RECOMMENDATION

Staff proposes that the NNWPC approve the 2021-2040 RWMP with or without changes and provide direction to staff as appropriate.

BW:KR:jp

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: July 29, 2022
TO: Chairman and Members, Northern Nevada Water Planning Commission (NNWPC)
FROM: Kimberly Rigdon, Water Resources Program Manager
SUBJECT: Action, discussion and possible approval of Resolution 22-01 to recommend the adoption, by the Western Regional Water Commission (WRWC), of the 2021-2040 Comprehensive Regional Water Management Plan (2021-2040 RWMP)

SUMMARY

Staff updated the 2021-2040 RWMP and presented it to the NNWPC under Item 7. The public hearing was held under Item 8. Staff developed Resolution 22-01 (Attachment 9a) to meet the requirements of the WRWC Act (the Act).

BACKGROUND

Provisions of Chapter 531, *Statutes of Nevada 2007*, of the Act, Section 41(1) requires the NNWPC to develop, and as necessary recommend revisions to the Comprehensive Regional Water Management Plan (RWMP). Per Section 45(2,3), a public hearing on the 2021-2040 RWMP was duly noticed on July 24, 2022, and held on August 3, 2022, by the NNWPC. Section 45(4) of the Act requires the NNWPC to submit the proposed 2021-2040 RWMP or any amendment to the adopted RWMP to the WRWC by resolution.

RECOMMENDATION

Staff proposes the NNWPC approve Resolution 22-01 to recommend the adoption, by the WRWC, of the 2021-2040 RWMP with or without changes and provide direction to staff as appropriate.

BW:KR:jp

Attachment: Resolution 22-01

**NORTHERN NEVADA WATER PLANNING
COMMISSION**

Resolution No. 22-01

**Submitting the 2021-2040 Comprehensive Regional Water Management Plan to
the Western Regional Water Commission**

WHEREAS, the provisions of Chapter 531, *Statutes of Nevada 2007*, the Western Regional Water Commission Act (the "Act"), Section 41(1) requires the Northern Nevada Water Planning Commission to develop, and as necessary recommend revisions to, a comprehensive regional water management plan (the "Plan") for the entire area within the boundaries of Washoe County, except certain lands excluded by Sections 22(1) and 22(2) of the Act; and

WHEREAS, the Plan includes the items required by Section 41 of the Act, and the elements required by Section 42 of the Act, and, without limitation: identifies the boundaries of the region; includes surface water and groundwater policies and criteria; covers municipal and industrial water supplies, water quality and wastewater, sanitary sewerage, treatment of sewage, flood control and storm water drainage, watershed management and protection, projections of population, water demand and wastewater flow, legal and regulatory constraints, conservation, issues identification, a financial analysis, and an action plan with proposed action items; and

WHEREAS, the Plan includes written text, maps, goals and policies to deal with current and future issues affecting the region with respect to the subjects of the Plan, and will become effective, pursuant to the provisions of the Act, upon adoption by the Board of Trustees of the Western Regional Water Commission, and review by the Truckee Meadows Regional Planning Commission for consistency with the Regional Plan, pursuant to sections 48 and 49 of the Act; and

WHEREAS, all subject matter in the Plan has been reviewed, accepted, and recommended for adoption by the voting members of the Northern Nevada Water Planning Commission; and

WHEREAS, a public hearing on the Plan was duly noticed on July 24, 2022, and held on August 3, 2022, by the Northern Nevada Water Planning Commission.

NOW, THEREFORE, IT IS RESOLVED that the Northern Nevada Water Planning Commission hereby finds that the 2021-2040 Plan provides a reasonable updated and amended necessary general plan for the management of the region's water resources and wastewater disposal until such time as future amendment is required; and

**NORTHERN NEVADA WATER PLANNING
COMMISSION**

Resolution No. 22-01, Page 2

IT IS FURTHER RESOLVED that the 2021-2040 Plan shall be submitted to the Board of Trustees of the Western Regional Water Commission for approval and adoption, and to the Truckee Meadows Regional Planning Commission for consistency review.

David Solaro
Chair, NNWPC

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: July 29, 2022

TO: Chairman and Members, Northern Nevada Water Planning Commission (NNWPC)

FROM: Kim Rigdon, Water Resources Program Manager

SUBJECT: Action, discussion, and direction to staff to advance a recommendation to the Western Regional Water Commission (WRWC) to make a determination on the Truckee Meadows Regional Planning Agency (TMRPA) 2022-2042 Consensus Forecast.

SUMMARY

The TMRPA has prepared the draft 2022-2042 Washoe County Consensus Forecast and submitted it to staff for comparison with the estimated population that can be supported by the sustainable water resources as set forth in the RWMP. The comparison consists of 4 parts: the 20-year population projection for Washoe County provided in the draft Consensus Forecast, the sustainable water resources estimate in the adopted RWMP, a 20-year water demand projection based on the Consensus Forecast, provided by the Truckee Meadows Water Authority (TMWA), and a comparison of the water demand projection to the sustainable water resources estimate set forth in the RWMP.

The draft 2022-2042 Consensus Forecast projects that the total population in Washoe County will grow from 489,180 to 587,479 in 2042, increasing by approximately 100,000 persons. TMWA's 2020 Water Resources Plan (2020 WRP) includes a water demand projection of 96,000 acre-feet annually (afa) in 2040. For areas outside of the TMWA service boundaries, the 2010-2040 RWMP estimates the 2040 water demand will be 12,000 afa. Therefore, the total projected water demand for Washoe County is 108,000 afa.

The 2021-2040 RWMP includes an estimate of potentially available, sustainable water resources of approximately 192,988 afa. In addition, staff reported in 2020 that approximately 143,800 afa of the sustainable water resources are potentially available with no additional water importation.

ANALYSIS AND CONCLUSION

- The draft 2022-2042 Washoe County Consensus Forecast projects a 2042 population of 587,479.
- The draft 2021-2040 RWMP includes an estimate of potentially available, sustainable water resources of approximately 192,988 acre feet per year and staff estimates 143,800 afa without additional importation.
- The projected water demand for 2040 is 108,000 afa.

By this comparison, the draft 2022-2042 Washoe County Consensus Forecast population for 2042 is significantly less what the sustainable water resources identified in the RWMP can support, even without additional water importation.

BACKGROUND

In January 2010, the Regional Planning Governing Board (RPGB) adopted certain amendments to the Truckee Meadows Regional Plan (Regional Plan), and the RPGB Regulations on Procedure, identifying the NNWPC and the WRWC as the entities to perform a comparison, prior to the adoption of the Consensus Forecast, of the draft Washoe County Consensus Forecast and the estimated population that can be supported by the sustainable water resources as set forth in the RWMP. In April 2014, the TMRPA assumed the responsibility for preparing and publishing the Consensus Forecast. The RPGB Regulations on Procedure were amended at that time to reflect this change, and to make minor adjustments to the data sources and time frames for compilation and distribution of draft and final versions of the forecast.

According to the amended RPGB Regulations on Procedure, the NNWPC, upon receiving the draft consensus forecast document, will compare the draft population forecast with the estimated population that can be supported by the sustainable water resources as set forth in the RWMP and advance a recommendation for consideration to the WRWC. The WRWC will then make a determination based on the NNWPC's recommendation concerning the comparison described above and inform Reno, Sparks, Washoe County, and the TMRPA as to its finding. In addition, the RPGB Regulations on Procedure state that if the WRWC determines the draft Consensus Forecast is less than or equal to the estimated population that can be supported by the sustainable water resources identified in the RWMP, the WRWC will submit the draft Consensus Forecast to Reno, Sparks, Washoe County, and the TMRPA with a finding that the forecasted population can be supported by the sustainable water resources as set forth in the RWMP.

Since 2010, the NNWPC has made the comparison and advanced a recommendation to the WRWC as to whether the Consensus Forecast population can be supported by the sustainable water resources identified in the RWMP (see Attachment 10a). The WRWC approved the NNWPC's recommendations and found that the draft Consensus Forecast population was less than the estimated population that can be supported by the sustainable water resources set forth in the RWMP, and directed staff to inform Reno, Sparks, Washoe County, and the TMRPA that the forecasted population can be supported by the sustainable water resources as set forth in the RWMP.

RECOMMENDATION

Staff proposes the NNWPC advance a recommendation to the WRWC to make a determination that the draft Consensus Forecast population for 2042 is less than the estimated population that can be supported by the sustainable water resources set forth in the RWMP, and a finding that the forecasted population can be supported by such water resources.

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2010 Consensus Forecast Review		2012 Consensus Forecast Review	
2010 Population	434,519	2012 Population	425,930
2030 Population	<u>590,533</u>	2032 Population	<u>560,772</u>
RWMP Sustainable Water Resources (afa)	183,250	2011-2030 RWMP Sustainable Water Resources (afa)	183,250
2030 Water Demand Projection (afa)	<u>(142,000)</u>	2030 Water Demand Projection (afa)	<u>(142,000)</u>
Sustainable WR > Demand (afa)	41,250	Sustainable WR > Demand (afa)	41,250
<i>Water Demand based on TMWA "2010-2030 Consensus Forecast Population and Building and Water Use Projections"</i>		<i>2032 Pop Est. < 2030, therefore no new water demand projection was requested.</i>	

2014 Consensus Forecast Review		2016 Consensus Forecast Review	
2014 Population	442,123	2016 Population	450,747
2034 Population	<u>563,779</u>	2036 Population	<u>548,159</u>
2011-2030 RWMP Sustainable Water Resources (afa)	183,250	2011-2030 RWMP Sustainable Water Resources (afa)	183,250
2030 Water Demand Projection (afa)	<u>(142,000)</u>	2036 Water Demand Projection (afa)	<u>(116,000)</u>
Sustainable WR > Demand (afa)	41,250	Sustainable WR > Demand (afa)	67,250
<i>2034 Pop Est. < 2030 & 2032, therefore no new water demand projection was requested.</i>		<i>2036 Population < 2034 Population TMWA updated water demand estimate methodology.</i>	

2018 Consensus Forecast Review		2020 Consensus Forecast Review	
2018 Population	451,923	2020 Population	469,801
2038 Population	<u>558,746</u>	2040 Population	<u>569,385</u>
2016 RWMP Sustainable Water Resources (afa)	190,500	2016 RWMP Sustainable Water Resources (afa)	190,500
2038 Water Demand Projection (afa)	<u>(111,875)</u>	2040 Water Demand Projection (afa)	<u>(114,100)</u>
Sustainable WR > Demand (afa)	78,625	Sustainable WR > Demand (afa)	76,400
<i>RWMP Update for Sustainable Water Resources Updated TMWA 2036 water demand projection to include water loss and adjusted domestic well water demand calculations.</i>		<i>Water Demand Projection not requested, staff recommended increase of 2% in alignment with 2040 Consensus Forecast Population 2% increase.</i>	

2022 Consensus Forecast Review	
2022 Population	489,180
2042 Population	<u>587,479</u>
2021 RWMP Sustainable Water Resources (afa)	192,988
2040 Water Demand Projection (afa)	<u>(108,000)</u>
Sustainable WR > Demand (afa)	84,988
<i>RWMP Update for Sustainable Water Resources TMWA 2020-2040 WRP update for Water Demand</i>	

Notes:

acre feet annually (afa)

2013, 2014 and 2015 drought impacts to water demand

2015 WC DWR merger with TMWA updated water demand estimate methodology

Northern Nevada Water Planning Commission

STAFF REPORT

DATE: July 29, 2022
TO: Chair and Members, Northern Nevada Water Planning Commission (NNWPC)
FROM: Kim Rigdon, Water Resources Program Manager
SUBJECT: Program Manager's Report

Attached are updated reports for items (a) and (b) for your review.

- a. Report on the status of Projects and Work Plan supported by the Regional Water Management Fund (RWMF); and
- b. Financial Report on the RWMF.

KR:BW:jp

Status Report of Projects and Work Plan Supported by the Regional Water Management Fund

Project	Orig.PO/Carry Foward	FY22 Changes	Balance	Percent Complete	Start Date	End Date	FY23 Amendment	Comments
DRI - Precipitation Can Monitoring Network	\$20,000	-\$20,000	\$0	100%	9/29/2016	9/30/2022	\$20,000	FY22 Monitoring Activities Completed
TMWA Water Usage Review Program	\$100,000	-\$100,000	\$0	100%	7/1/2020	9/30/2022	\$100,000	FY22 Work Plan Completed
DRI - Washoe ET Project	\$5,000	-\$4,930	\$70	99%	7/1/2021	9/30/2022	\$5,000	FY22 Monitoring/Website Completed
Nevada Landscape Association CLT Exam	\$25,000	-\$25,000	\$0	100%	7/1/2020	9/30/2022	\$12,500	FY22 Trainings completed
One Water - A+ Reclaimed Wtr Feasibility Study	\$75,548	-\$75,548	\$0	100%	4/1/2019	3/31/2022	\$0	Closed
UNR - Regional Water Management Coordination	\$149,968		\$149,968		7/1/2023	6/30/2023		FY23 New ILA
Long Valley Creek Feasibility Study	\$58,470	\$0	\$58,470	0%	10/1/2019	6/30/2022	Time Amendment	FY22 No activity
Carollo - OneWater Expert Panel Review	\$31,924	-\$13,665	\$18,259	43%	7/15/2020	6/30/2022	\$0	Closed
NWRI - OWN Expert Panel Review	\$49,398		\$49,398		7/1/2020	6/30/2023		FY23 New ILA
Brown & Caldwell - Effluent Guidance Document	\$86,236	-\$57,109	\$29,127	66%	7/15/2020	9/30/2022	Time Amendment	Project ongoing, report under development
UNR-Wastewater Source Control Plan	\$170,000	-\$158,140	\$11,860	93%	7/1/2021	9/30/2023	\$0	Final draft submitted for review and comment
Data Instincts - IPR Outreach	\$100,000	-\$56,656	\$43,344	57%	9/1/2021	9/30/2022	\$100,000	Ongoing support for APW projects
Storm Water Permit Coordinating Committee	\$262,500	-\$108,335	\$154,165	41%	7/1/2020	9/30/2022	\$262,500	Ongoing implementation of Stormwater Mangement Program
Truckee River Foundation - One Truckee River	\$29,014	-\$29,014	\$0	100%	7/15/2020	12/31/2021	\$75,000	FY22 Closed FY23 New ILA
Environmental Incentives - Water Quality Crediting Program	\$200,000	-\$36,833	\$163,167	18%	7/1/2021	9/30/2023	\$0	Ongoing - start up in FY22 will continue thru FY23
HDR - Steamboat Flood Evaluation	\$169,576	-\$110,191	\$59,385	65%	7/1/2020	9/30/2022	Time Amendment	Draft document is under review by WC staff
RWMP Cost and Finance Chapter Update	\$13,490	-\$9,420	\$4,070	70%	7/1/2020	6/30/2022	Time Amendment	Accepted and included in 2021-2040 RWMP
AECOM-RWMP Packaging	\$34,000	-\$26,563	\$7,438	78%	4/6/2022	2/28/2023	\$0	Draft plan review and packaging complete
TMRPA Shared Work Program	\$50,000		\$50,000		7/1/2022	6/30/2023		FY23 New ILA

Note: Bold Items are new FY23 Agreements

6/30/2022

Fund 766

Report 400/ZF15

Fiscal Year 2022; Period 1-12

8-03-2022: NNWPC Agenda Item 11b

**Financial Report on the
Regional Water Management Fund**

Accounts	Plan Budget	Actual (Revenue & Expenses)	PO Commit (Remaining PO Balance)	Actual + PO	Available (Budget Minus Actual + PO)	Avail%	PreCommit (PO's Requested)	Available (Budget Minus PO Requisitions)	Avail%
Interest-Pooled Inv.	14,485.00-	15,951.56-		15,951.56-	1,466.56	10		1,466.56	10
RGL Pooled Inv.		3,324.85-		3,324.85-	3,324.85			3,324.85	
URGL Pooled Inv.		84,975.50		84,975.50	84,975.50-				
Water Surcharge 1.5%	1,629,059.00-	1,697,065.63-		1,697,065.63-	68,006.63	4		68,006.63	4
** REVENUE	1,643,544.00-	1,631,366.54-		1,631,366.54-	12,177.46-	1-		12,177.46-	1-
WRWC Staff & Legal	511,117.00	371,612.95	609,468.35	415,322.47	95,794.53	19		95,794.53	19
Fin Consult Services	9,000.00	8,900.00		8,900.00	100.00	1		100.00	1
Invest Pool Alloc Ex		1,120.17		1,120.17	1,120.17-			1,120.17-	
Software Subscription		1,029.90		1,029.90	1,029.90-			1,029.90-	
Operating Supplies		223.96		223.96	223.96-			223.96-	
Office Supplies/Postage		101.73		99.64					
Cellular Phone		443.46		443.46	443.46-			443.46-	
Seminars and Meetings	1,000.00				1,000.00	100		1,000.00	100
Advertising	1,000.00				1,000.00	100		1,000.00	100
Undesignated Budget	10,000.00				10,000.00	100		10,000.00	100
Insurance Premium		4,654.00		4,654.00					
Combined Utilities	497.00	497.04		497.04	0.04-	0-		0.04-	0-
Travel	1,000.00				1,000.00	100		1,000.00	100
Overhead	59,450.00	57,192.11		57,192.11	2,257.89	4		2,257.89	4
** EXPENDITURES	2,568,212.00	1,202,659.14	610,186.35	1,812,845.49	755,366.51	29	258.00	755,108.51	29
*** Total	924,668.00	428,707.40-	610,186.35	181,478.95	743,189.05	80-	258.00	742,931.05	80-